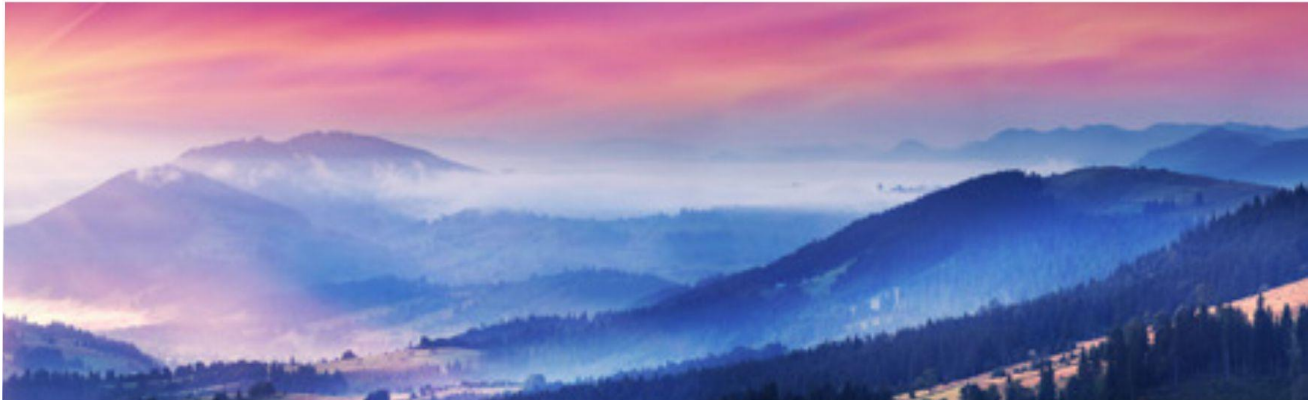




Івано-Франківський
національний технічний
університет нафти і газу



Hungary-Slovakia-Romania-Ukraine ENI Cross-border Cooperation Programme 2014-2020



PARTNERSHIP WITHOUT BORDERS

Project title: HUSKROUA/1702/6.1/0022 «Regional Center for Training and Monitoring of the Environmental Impact of Electrical Installations» - CRIMIGE

Partners: Technical University of Cluj-Napoca (Romania); Ivano-Frankivsk National Technical University of Oil and Gas (Ukraine)

Project start date: 01.03.2020 Project end date: 28.02.2022

International Scientific and Practical Conference «Environmental Impact of Production, Transmission, Distribution and Use of Electricity»

CONFERENCE PROGRAM

November, 24 – 25 листопада 2022

Ivano-Frankivsk – Baia-Mare, 2022

EU Contribution: 245373,76 €

Co-financed by the
European Union



Conference Schedule

**International Scientific and Practical Conference
"Environmental Impact of Production, Transmission,
Distribution and Use of Electricity"
November, 24-25 2022, Ivano-Frankivsk**

November, 24 2022

CONFERENCE OPENING	10:00-11:00
WORK IN SECTIONS.....	11:00-14:00

November, 25 2022

WORKSHOP

IN THE LABORATORY «REGIONAL CENTER

FOR TRAINING AND MONITORING

OF THE ENVIRONMENTAL IMPACT

OF ELECTRICAL INSTALLATIONS" 10:00-11:30

MODERATOR: *Liudmyla Arkhypova* – Ph.D. Habil., Professor

Click on the link to join: <https://meet.google.com/mpj-uajc-kvu>

Languages of the Conference: Ukrainian, English, Romanian.

Time limites - sectional reports – up to 10 minutes
 - discussion – up to 3 minutes

Conference Organizing Committee

Co-Heads:

Oleh Mandryk – Doctor of Technical Sciences, Professor, First Vice-Rector of IFNTUOG (Ua);

Petrica Pop-Sitar – Ph.D. Habil, Professor, Vice-Rector of North University Center of Baia Mare, UTCN (Ro).

Deputy Heads:

Yaroslav Adamenko – Doctor of Technical Sciences, Professor, Head of the Department of Ecology IFNTUOG, Project Manager of HUSKROUA/1702/6.1/0022 (Ua);

Mihaela Stet – Ph.D., Lecturer of the Department of Electrical, Electronics and Computer Engineering, UTCN, Project Manager of HUSKROUA/1702/6.1/0022 (Ro).

Secretaries of the Conference:

Ramona Demarcsek – Ph.D., Lecturer in the Department of Philology and Cultural Studies, UTCN (Ro);

Taras Kachala – Ph.D., Associate Professor of the Department of Ecology, IFNTUOG (Ua).

Members of the Organizing Committee:

Liudmyla Arkhypova – Doctor of Technical Sciences, Professor, Head of the Department of Tourism, IFNTUOG (Ua);

Mircea Horgos – Ph.D., Associate Professor, Vice-Dean of the Faculty of Engineering, UTCN (Ro);

Claudiu Lung – Ph.D., Lecturer, Head of the Department of Electrical, Electronics and Computer Engineering, UTCN (Ro);

Ștefan Oniga – Ph.D. Habil., Professor of the Department of Electrical, Electronics and Computer Engineering, UTCN (Ro);

Mariia Orfanova – Ph.D., Associate Professor of the Department of Ecology, IFNTUOG (Ua);

Yuliia Stakhmych – Ph.D., Associate Professor of the Department of Philology, Interpreting and Translation, IFNTUOG (Ua);

Ivan Kovbaniuk – Head of the Department of Information and Public Relations, IFNTUOG (Ua).

OPENING SPEECHES

Oleh Mandryk – Doctor of Technical Sciences, Professor, First Vice-Rector of the Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine;

Petrica Pop-Sitar – Ph.D. Habil, Professor, Vice-Rector of the Technical University of Cluj-Napoca North University Center of Baia Mare, Romania;

Yaroslav Adamenko – Doctor of Technical Sciences, Professor, Head of the Department of Ecology of the Ivano-Frankivsk National Technical University of Oil and Gas, Project Manager of HUSKROUA/1702/6.1/0022, Ukraine;

Mihaela Stet – Ph.D., Lecturer of the Department of Electrical, Electronics and Computer Engineering of the Technical University of Cluj-Napoca North University Center of Baia Mare, Project Manager of HUSKROUA/1702/6.1/0022, Romania.

SECTION 1

Global and Regional Problems of Environmental Safety of Energy Facilities

Oksana Onyshchuk – *Candidate of Technical Sciences, Associate Professor*
Lesya Ukrainka Volyn National University, Lutsk, Ukraine

DESCRIPTION OF CURRENT TYPES OF RENEWABLE ENERGY SOURCES

Olena Khomenko – *Ph.D., Associate Professor;*
Andrii Lastabezhenko – *Master's Student*
Cherkasy State Technological University, Cherkasy, Ukraine

INFLUENCE OF THE ENERGY INDUSTRY ON THE ENVIRONMENTAL CONDITION OF CHERKASY OBLAST

Volodymyr Bakhariev – *Doctor of Technical Sciences, Professor;*
Olena Kortsova – *Candidate of Technical Sciences, Associate Professor*
Kremenchuk Mykhailo Ostrogradskyi National University, Kremenchuk, Ukraine;
Vadym Honcharuk – *PE "Inter-Eko", Vinnytsia, Ukraine*

SYSTEMS OF CONTINUOUS CONTROL AND MONITORING OF MAN- GENERATED EMISSIONS AT SOURCES OF THERMAL POWER PLANTS (EXAMPLE OF KREMENCHUTSKA TPP)

Maryna Romanova – Teacher

Sloviansk Power-Building Applied College, Sloviansk, Ukraine

**USING TPP WASTE IN THE CONSTRUCTION MATERIALS
MANUFACTURING INDUSTRY**

Valentyna Kobernyk

*Institute of General Energy of the National Academy of Sciences of Ukraine, Kyiv,
Ukraine*

**INDICATORS OF THERMAL ENERGY TECHNOLOGIES ON SOLID FUEL
WITH DECARBONIZATION IN ACCOUNT**

Valentyn Linchenko – Post-Graduate Student

*Admiral Makarov National University of Shipbuilding, Mykolaiv Power Supply
Company LLC, Mykolaiv, Ukraine*

Dmytro Zhuk – Candidate of Technical Sciences, Associate Professor

Admiral Makarov National Shipbuilding University, Mykolaiv, Ukraine

GREEN ENERGY: PROBLEMS OF ENVIRONMENTAL PROTECTION

Viola Vambol – Doctor of Technical Sciences, Professor

*University of Life Sciences in Lublin, Lublin, Poland, National University "Yuri
Kondratyuk Poltava Polytechnic", Poltava, Ukraine;*

Oleksandr Trush – Candidate of Public Administration, Professor

National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine;

Nadeem Ahmad Khan – Dr., Assoc. Prof.

Jamia Millia Islamia, New Delhi, India;

Serhii Vambol – Doctor of Technical Sciences, Professor

National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine

**PROSPECTS FOR THE DEVELOPMENT OF ENVIRONMENTAL
TECHNOLOGIES OF SOLID DOMESTIC WASTE DISPOSAL**

Liudmyla Arkhypova – Doctor of Technical Sciences, Professor;
Yaroslav Adamenko – Doctor of Technical Sciences, Professor
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**PROBLEMS AND BENEFITS OF ELECTRICITY PRODUCTION AT MHPP
IN ZAKARPATTIA**

Iryna Smyk – Post-Graduate Student;
Liudmyla Arkhypova – Doctor of Technical Sciences, Professor
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

ENVIRONMENTAL RISKS OF ENERGY SECURITY

Oleh Mandryk – Doctor of Technical Sciences, Professor;
Oleh Tuts – Post-Graduate Student
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**ENVIRONMENTAL DAMAGE RESULTING FROM ACCIDENTS ON
MAIN GAS PIPES**

Bohdan Karpinskyi – Post-Graduate Student
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**POLLUTION ELIMINATION BY FACILITIES OF THE OIL AND GAS
COMPLEX IN THE CARPATHIAN REGION OF UKRAINE**

Roman Mykhailiuk – Post-Graduate Student
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**STUDY OF HYDRODYNAMIC PARAMETERS OF THE PROPOSED
DESIGN OF SELF-OPERATING GATE WITH THE HELP OF FEM**

Mariia Orfanova – *Candidate of Technical Sciences, Associate Professor*
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**PRACTICAL ASPECTS OF USING PROJECT RESULTS IN TEACHING
DISCIPLINES**

Andrii Redko – *Post-Graduate Student*
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

ANALYSIS OF RECULTIVATION METHODS OF OPEN MINING WORKS

Yaroslav Fedyk – *Post-Graduate Student*;
Volodymyr Rushchak – *Post-Graduate Student*;
Ihor Chepurnyi – *Candidate of Geological Sciences, Associate Professor*
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**SIMULATION OF HYDROLOGICAL PARAMETERS ON THE EXAMPLE
OF THE RIVER PRUT RESERVOIR IN IVANO-FRANKIVSK REGION
USING GIS**

Khrystyna Matiiv – *Post-Graduate Student*
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**PROSPECTS OF USING ALTERNATIVE ENERGY SOURCES IN THE
CARPATHIAN REGION, IN PARTICULAR IN YAREMCHE TOWN
COUNCIL**

Ihor Klymchuk – *Post-Graduate Student*
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**HYDRO-ENERGY POTENTIAL OF THE RIVERS IN THE CARPATHIAN
REGION OF UKRAINE**

SECTION 2

Environmental Impact of Physical Fields from Energy Enterprises

Claudiu Lung – *PhD, Lecturer*
Technical University of Cluj Napoca,
Baia Mare, Romania

STUDY OF RF RADIATION LEVEL ON IGNIȘ PEAK

Vladyslav Yanenko – *Post-Graduate Student;*
Alla Klepko – *Doctor of Biological Sciences, Senior Researcher*
National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine

CURRENT PROBLEMS AND PROSPECTS OF USING ALTERNATIVE ENERGY SOURCES IN UKRAINE

Volodymyr Chupa – *Post-Graduate Student;*
Bohdan Herasymenko – *Master's Student;*
Yaroslav Adamenko – *Doctor of Technical Sciences, Professor*
Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

STUDY OF ELECTROMAGNETIC RADIATION OF DOMESTIC AREAS

Tamara Kundelska – Candidate of Technical Sciences, Ecological Expert of the CRIMIGE Project,

Mykola Shtohryn – Senior Lecturer,

Volodymyr Chupa – Post-Graduate Student

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

RESULTS OF ENVIRONMENTAL AND GEOPHYSICAL RESEARCH OF THE URBOSYSTEMS OF THE TOWN OF YAREMCHE

Taras Kachala – Candidate of Technical Sciences, Associate Professor;

Khrystyna Masliak – Student;

Denys Semkovych – Student

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

MEASURING NOISE POLLUTION ON THE TERRITORY OF IFNTUOG

Taras Kachala – Candidate of Technical Sciences, Associate Professor;

Stepan Harasymiv – Student;

Yaroslav Dziubak – Student

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

MEASURING RADIATION LEVEL ON THE TERRITORY OF EDUCATIONAL INSTITUTIONS (ON THE EXAMPLE OF IFNTUOG)

Taras Kachala – Candidate of Technical Sciences, Associate Professor;

Vasyl Petrashchuk – Student;

Bohdan Kucheriavyi – Student

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

ELECTROMAGNETIC RADIATION LEVEL ON THE TERRITORY OF THE IVANO-FRANKIVSK NATIONAL TECHNICAL UNIVERSITY OF OIL AND GAS

SECTION 3

Impact of Energy Enterprises on Biodiversity

Garcia Camacho Hernan Ullianodt – Post-Graduate Student;
Ihor Vasykivskyi – Candidate of Technical Sciences, Associate Professor
Vinnytsia National Technical University, Vinnytsia, Ukraine

EXTINCT ICHTHIOFAUNA OF THE SOUTHERN BUG AS A RESULT OF THE CONSTRUCTION OF SMALL HPP

Sergey Vambol – DSc., Prof.
National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine;
Viola Vambol – DSc., Prof.,
University of Life Sciences in Lublin, Lublin, Poland, Yuri Kondratyuk Poltava
Polytechnic National University, Poltava, Ukraine;
Ihor Cherepnov – PhD Assoc. Prof.,
State Biotechnological University, Kharkiv, Ukraine;
Nastaran Mozaffari – M.Eng, PhD student;
Niloofar Mozaffari – M.Sc, PhD student
University Laval, Quebec, Canada

MONITORING THE IMPACT OF ELECTROMAGNETIC FIELDS ON BIOLOGICAL OBJECTS USING VEGETATIVE TEST SYSTEMS

Valeria Gruzdova – *Candidat pentru studii superioare (master);*

Yuvita Koloshko – *Lector*

Universitatea Națională de Apărare Civilă din Ucraina, Kharkiv, Ucraina

CARACTERISTICILE BIOMETANULUI ÎN TIMPUL PROCESĂRII ȘI A DEȘEURILOR AGRICOLE

Halyna Krusir – *Doctor of Technical Sciences, Professor;*

Olena Kupriashkina – *Post-Graduate Student*

Odesa National University of Technology, Odesa, Ukraine

STUDY OF BIODEGRADATION OF AROMATIC HYDROCARBONS

Natalia Glibovytska – *Candidate of Biological Sciences, Associate Professor*

Jagiellonian University, Krakow, Poland

INFLUENCE OF ELECTRICAL ENERGY FACILITIES ON VITALITY OF BIOLOGICAL SYSTEMS

Marharyta Radomska – *PhD, Associate Professor*

National Aviation University, Kyiv, Ukraine

THE INTERACTION BETWEEN URBAN AVIFAUNA AND RENEWABLE ENERGY GENERATION FACILITIES

SECTION 4

Green Energy – Problems of Environmental Protection

Valeria Gruzdova – Applicant for Higher Education (Master's Degree);

Yuvita Koloshko – Lecturer

National University of Civil Defence of Ukraine, Kharkiv, Ukraine

FEATURES OF THE EUROPEAN GREEN DEAL AND ITS IMPLEMENTATION IN UKRAINE

Yuliia Postol – Candidate of Technical Sciences, Associate Professor;

Vadym Hulevskyi – Candidate of Technical Sciences, Associate Professor

Dmytro Motornyi Tavria State Agrotechnological University, Melitopol, Ukraine

APPLICATION OF HEAT PUMP INSTALLATIONS FOR RECYCLING THE HEAT OF SECONDARY ENERGY RESOURCES

Viacheslav Makedon – Doctor of Economic Sciences, Professor

Oles Honchar Dnipro National University, Dnipro, Ukraine

MANIFESTATIONS OF GLOBAL INTERDEPENDENCE DURING THE TRANSITION TO GREEN ENERGY

Serhii Boiko – *Candidate of Technical Sciences, Associate Professor;*

Victoriia Moiseieva – *Student;*

Denys Piskun – *Student*

National University "Zaporizhzhia Polytechnic", Zaporizhzhia, Ukraine

**ENVIRONMENTAL ASPECTS OF USING RENEWABLE ENERGY
SOURCES IN TRANSPORT INDUSTRY**

Valeriia Vovk – *Post-Graduate Student*

Vinnytsia National Agrarian University, Vinnytsia, Ukraine

**INTEGRATED ASSESSMENT OF THE ECOLOGICAL LOAD ON THE
ENVIRONMENT**

Lidiia Davybidia – *Candidate of Geological Sciences, Associate Professor*

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

Ireneusz Wyczałek – *Dr Hab. Inż., Professor;*

Artur Plichta – *Dr Inż.*

Poznan University of Technology, Poznan, Poland

**USING GIS AND CAD TOOLS TO DESIGN A SOLAR POWER PLANT ON
THE ROOF OF A HISTORICAL BUILDING**

Nataliia Moskalchuk – *Candidate of Technical Sciences, Associate Professor*

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

**ESTIMATING THE POSSIBILITY OF WIND ELECTRICITY GENERATION
IN IVANO-FRANKIVSK CITY TERRITORIAL COMMUNITY**

Iryna Yaremak – *Candidate of Technical Sciences, Associate Professor;*

Roman Yaremak

Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine

ENVIRONMENTAL ASPECTS OF SOLAR ENERGY

Workshop in the Laboratory «Regional Center for Training and Monitoring of the Environmental Impact of Electrical Installations»

Mykola Shtohryn

*Head of Laboratories of the Department of Ecology of the Ivano-Frankivsk
National Technical University of Oil and Gas,
Physicist-Acoustician Expert of the CRIMIGE Project,
Ivano-Frankivsk, Ukraine*

Volodymyr Chupa

*Post-Graduate Student of the Department of Ecology the Ivano-Frankivsk
National Technical University of Oil and Gas,
Ecological Expert of the CRIMIGE Project,
Ivano-Frankivsk, Ukraine*

November 25, 2022 – 10:00-11:30

Program of the International Scientific and Practical Conference

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Compiler: Yaroslav Adamenko

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